

Application No.: 09/681184

Case No.: 58428US003

Amendments to the Claims:

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (currently amended) A ~~color display~~ system for color display, comprising: an illumination system that provides fixed, color-separated illumination of color-component sub-pixels in a pixellated electronic display panel; and a post-display panel dynamic displacement element that ~~displaces~~ is configured and arranged to repeatedly displace alignment of the color-component sub-pixels generated by the pixellated electronic display panel through a sequence of positions during operation of the system.
2. (original) The system of claim 1 further comprising an angular color separation system with plural angularly inclined dichroic mirrors for providing the color separation of incident multi-color illumination light.
3. (currently amended) The system of claim 1 further comprising a microlens array positioned adjacent the pixellated electronic display panel.
4. (currently amended) The system of claim 3 further comprising a grating positioned between the microlens array and the pixellated electronic display panel.
5. (original) The system of claim 4 in which the grating includes a holographic optical element.
6. (withdrawn) The system of claim 1 further comprising a grating for providing the color separation of incident multi-color illumination light.
7. (withdrawn) The system of claim 6 in which the grating includes a holographic optical element.

Application No.: 09/681184

Case No.: 58428US003

8. (withdrawn) The system of claim 1 in which the dynamic displacement element includes a rotating element that successively directs the color-component sub-pixels generated by the display panel along different optical paths.

9. (withdrawn) The system of claim 8 in which the rotating element includes a birefringent element with a selected polarization direction.

10. (withdrawn) The system of claim 8 in which the rotating element includes a plural refractive segments having different inclination orientations.

11. (currently amended) The system of claim 1 in which the post-display dynamic displacement element includes a pair of face-to-face refractive elements with a separation between them that is modified to successively direct the color-component sub-pixels generated by the pixellated electronic display panel along different optical paths.

12. (original) The system of claim 11 in which each of the refractive elements includes a prism array.

13. (withdrawn) The system of claim 1 further comprising a color separating element for providing the color separation of incident multi-color illumination light and a prism array positioned after the color separating element.

14. (withdrawn) The system of claim 13 in which the color separating element includes an angular color separation system with plural angularly inclined dichroic mirrors.

15. (original) The system of claim 1 in which the display panel includes color-component sub-pixels that are arranged in vertical columns for each color component.

Application No.: 09/681184

Case No.: 58428US003

16. (currently amended) The system of claim 1 further comprising a microlens array positioned adjacent the pixellated electronic display panel, wherein the each microlens is aligned with and delivers light to a triplet of color-component sub-pixels that are arranged in a horizontal row.

17. (original) The system of claim 16 in which the display panel includes color-component sub-pixels that are arranged in vertical columns for each color component and successive sub-pixels in each column are positioned in alternate successive rows.

18. (currently amended) The system of claim 1 in which the pixellated electronic display panel includes color-component sub-pixels that are arranged in vertical columns for each color component and the system further comprises a microlens array positioned adjacent the pixellated electronic display panel, wherein the each microlens is aligned with and delivers light to a triplet of color-component sub-pixels that are positioned among two adjacent horizontal rows.

19. (currently amended) A ~~color-electronic display~~ projector, comprising: an illumination system that provides fixed, color-separated illumination of color-component sub-pixels in a pixellated electronic display panel; and a post-display panel dynamic displacement element that dynamically moves to repeatedly displace alignment of the color-component sub-pixels generated by the pixellated electronic display panel through a sequence of positions during operation of the projector.

20. (original) The projector of claim 19 further comprising an angular color separation system with plural angularly inclined dichroic mirrors for providing the color separation of incident multi-color illumination light.

21. (currently amended) The projector of claim 19 further comprising a microlens array positioned adjacent the pixellated electronic display panel.

Application No.: 09/681184

Case No.: 58428US003

22. (currently amended) The projector of claim 21 further comprising a grating positioned between the microlens array and the pixellated electronic display panel.
23. (original) The projector of claim 22 in which the grating includes a holographic optical element.
24. (original) The projector of claim 19 further comprising a grating for providing the color separation of incident multi-color illumination light.
25. (original) The projector of claim 24 in which the grating includes a holographic optical element.
26. (currently amended) The projector of claim 19 in which the dynamic displacement element includes a rotating element that successively directs the color-component sub-pixels generated by the pixellated electronic display panel along different optical paths.
27. (withdrawn) The projector of claim 26 in which the rotating element includes a birefringent element with a selected polarization direction.
28. (withdrawn) The projector of claim 26 in which the rotating element includes a plural refractive segments having different inclination orientations.
29. (previously presented) The projector of claim 19 in which the post-display dynamic displacement element includes a pair of face-to-face refractive elements with a separation between them that is modified to successively direct the color-component sub-pixels generated by the display panel along different optical paths.
30. (original) The projector of claim 29 in which each of the refractive elements includes a prism array.

Application No.: 09/681184

Case No.: 58428US003

31. (withdrawn) The projector of claim 19 further comprising a color separating element for providing the color separation of incident multi-color illumination light and a prism array positioned after the color separating element.

32. (withdrawn) The projector of claim 31 in which the color separating element includes an angular color separation system with plural angularly inclined dichroic mirrors.

33. (currently amended) ~~A color display method for color display,~~ comprising: illuminating color-component sub-pixels in a pixellated electronic display panel with color-separated, fixed color components; and dynamically and repeatedly aligning the color-component sub-pixels ~~after the display element through a sequence of positions to form the color display.~~

34. (previously presented) The method of claim 33 further comprising angularly color separating incident multi-color illumination light to provide the color-separated, fixed color components.

35. (currently amended) The method of claim 33 in which dynamically and repeatedly aligning the color-component sub-pixels includes successively directing the color-component sub-pixels generated by the display panel along different optical paths.

36. (withdrawn) The method of claim 35 further comprising successively directing the color-component sub-pixels through different segments of a rotating light displacement panel.

37. (currently amended) The method of claim 33 in which the display panel includes color-component sub-pixels that are arranged in vertical columns for each color component and dynamically and repeatedly aligning the color-component sub-pixels ~~after the display panel~~ includes displacing selected color components laterally.

38. (currently amended) The method of claim 33 in which the color-component sub-pixels of a pixel are arranged on the display panel in adjacent rows and dynamically and repeatedly

Application No.: 09/681184

Case No.: 58428US003

aligning the color-component sub-pixels ~~after the display panel~~ includes displacing selected color components in transverse directions.

39. (currently amended) In a color display system with plural pixellated electronic display panels that each receive illumination of a different color component of light and a combiner that combines color component light images formed by the plural pixellated electronic display panels, the improvement comprising:

a post-combiner dynamic displacement element that is configured and arranged to repeatedly displace ~~displaces~~ alignment of the color-component sub-pixels generated by the plural pixellated electronic display panels through a sequence of positions to form a resolution-enhanced display image.